

2.5 Product group PPs

SIMONA

Standard stock item

| | |
|------------|-------------------------------|
| PPs | Homopolymer, low flammability |
|------------|-------------------------------|

PPs is a low-flammability polypropylene. PPs is used wherever high chemical resistance and thermal resistance are required in conjunction with low flammability, for example in ventilation systems and in electrical engineering.

Special properties

- Low flammability in accordance with DIN 4102 B1
- High chemical resistance
- Electrical insulating properties
- Long service life
- Good processing capability

PP

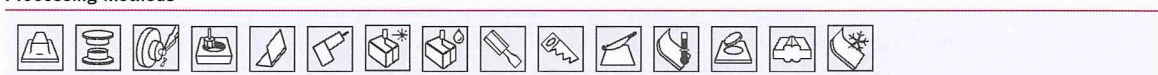
Material specifications

| | PPs | | | | |
|---|----------------------------------|--|--|--|--|
| Density, g/cm ³ , ISO 1183 | 0.950 | | | | |
| Yield stress, MPa, DIN EN ISO 527 | 32 | | | | |
| Elongation at break, %, DIN EN ISO 527 | 70 | | | | |
| Tensile modulus of elasticity, MPa, DIN EN ISO 527 | 1300 | | | | |
| Notched impact strength, kJ/m ² , DIN EN ISO 179 | 6 | | | | |
| Fire behaviour, DIN 4102 B1 | low flammability from 2 to 20 mm | | | | |

Areas of use

| | | | | | |
|--|--|--|--|--|--|
| | Air-Conditioning and Ventilation Systems, Automotive, Chemical Tank and Equipment Construction | | | | |
|--|--|--|--|--|--|

Processing methods



PPs

Products: Sheets, Welding rods

Processes: extruded, pressed

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Colours: grey, white

Note: Sheets in different formats and intermediate thicknesses available upon request. Welding rods in different dimensions and thicknesses available upon request.

Certificates of approval

- DIN 4102 B1 low flammability from 2 to 20 mm

Sheets

PPs Sheets, extruded, grey

| | | <i>without protective foil</i> | | | | | | | |
|-----------|----------|--------------------------------|----------|-------------|----------|-------------|--|--|--|
| Thickness | | 2000 x 1000 | | 3000 x 1500 | | 4000 x 2000 | | | |
| mm | kg/piece | Order no. | kg/piece | Order no. | kg/piece | Order no. | | | |
| 1.5 | 2.9 | 030002533 | | | | | | | |
| 2.0 | 3.8 | 030000664 | 8.6 | 030002538 | | | | | |
| 3.0 | 5.7 | 030000665 | 12.8 | 030000674 | 22.8 | 030002919 | | | |
| 4.0 | 7.6 | 030000666 | 17.1 | 030000675 | 30.4 | 030002920 | | | |
| 4.5 | 8.6 | 030002534 | 19.2 | 030002539 | 34.2 | 030002921 | | | |
| 5.0 | 9.5 | 030000667 | 21.4 | 030000676 | 38.0 | 030002922 | | | |
| 6.0 | 11.4 | 030000668 | 25.7 | 030000677 | 45.6 | 030002923 | | | |
| 8.0 | 15.2 | 030000669 | 34.2 | 030000678 | 60.8 | 030002924 | | | |
| 9.0 | 17.1 | 030004544 | 38.5 | 030004545 | 68.4 | 030004546 | | | |
| 10.0 | 19.0 | 030000670 | 42.8 | 030000679 | 76.0 | 030002925 | | | |
| 12.0 | 22.8 | 030000671 | 51.3 | 030000680 | 91.2 | 030002926 | | | |
| 15.0 | 28.5 | 030000672 | 64.1 | 030000681 | 114.0 | 030002927 | | | |
| 20.0 | 38.0 | 030000673 | 85.5 | 030000682 | 152.0 | 030002929 | | | |
| 25.0 | 47.5 | 030002536 | | | | | | | |
| 30.0 | 57.0 | 030002537 | | | | | | | |

PPs Sheets, extruded, white

| | | | | | | | <i>protective foil on both sides</i> | | | |
|-----------|-------------|------------------|-------------|-----------|-------------|------------------|--------------------------------------|--|--|--|
| | | | | | | | | | | |
| Thickness | 2002 x 1002 | | 2440 x 1220 | | 3002 x 1502 | | | | | |
| mm | kg/piece | Order no. | kg/piece | Order no. | kg/piece | Order no. | | | | |
| 1.5 | 2.9 | 030004547 | | | | | | | | |
| 2.0 | 3.8 | 030004548 | 5.7 | 030004538 | 8.6 | 030004541 | | | | |
| 3.0 | 5.7 | 030004398 | 8.5 | 030003200 | 12.9 | 030004407 | | | | |
| 4.0 | 7.6 | 030004399 | 11.3 | 030004403 | 17.1 | 030004408 | | | | |
| 4.5 | 8.6 | 030004535 | 12.7 | 030004163 | 19.3 | 030004542 | | | | |
| 5.0 | 9.5 | 030004400 | 14.1 | 030004404 | 21.4 | 030004409 | | | | |
| 6.0 | 11.4 | 030000689 | 17.0 | 030004164 | 25.7 | 030000701 | | | | |
| 8.0 | 15.2 | 030004401 | 22.6 | 030004405 | 34.3 | 030004167 | | | | |
| 9.0 | 17.2 | 030004536 | 25.5 | 030004165 | 38.6 | 030004534 | | | | |
| 10.0 | 19.1 | 030000690 | 28.3 | 030004406 | 42.8 | 030000702 | | | | |
| 12.0 | 22.9 | 030004402 | 33.9 | 030004166 | 51.4 | 030004168 | | | | |
| 15.0 | 28.6 | 030000691 | 42.4 | 030004539 | 64.3 | 030000703 | | | | |
| 20.0 | 38.1 | 030000692 | 56.6 | 030004540 | 85.7 | 030000704 | | | | |
| 25.0 | 47.6 | 030004537 | | | | | | | | |
| 30.0 | 57.2 | 030000693 | | | | | | | | |

PP

PPs Sheets, pressed, grey

| | | | | | | | <i>without protective foil</i> | | | |
|-----------|-------------|------------------|-------------|-----------|-------------|-----------|--------------------------------|--|--|--|
| | | | | | | | <i>pressed</i> | | | |
| | | | | | | | | | | |
| Thickness | 2000 x 1000 | | 4120 x 2010 | | 6200 x 2010 | | | | | |
| mm | kg/piece | Order no. | kg/piece | Order no. | kg/piece | Order no. | | | | |
| 10.0 | 19.0 | 030003896 | 78.7 | 030003905 | | | | | | |
| 12.0 | 22.8 | 030003897 | 94.4 | 030003906 | | | | | | |
| 15.0 | 28.5 | 030003898 | 118.0 | 030003907 | 177.6 | 030003924 | | | | |
| 20.0 | 38.0 | 030002196 | 157.3 | 030003908 | 236.8 | 030003925 | | | | |
| 25.0 | 47.5 | 030002197 | 196.7 | 030003909 | 296.0 | 030003926 | | | | |
| 30.0 | 57.0 | 030002198 | 236.0 | 030003910 | 355.2 | 030003927 | | | | |
| 35.0 | 66.5 | 030002555 | 275.3 | 030003911 | 414.4 | 030003928 | | | | |
| 40.0 | 76.0 | 030002199 | 314.7 | 030003912 | 473.6 | 030003929 | | | | |
| 50.0 | 95.0 | 030002200 | 393.4 | 030003913 | 591.9 | 030003930 | | | | |
| 60.0 | 114.0 | 030002201 | 472.0 | 030003914 | 710.3 | 030003931 | | | | |
| 70.0 | 133.0 | 030002202 | 550.7 | 030003915 | 828.7 | 030003932 | | | | |
| 80.0 | 152.0 | 030003899 | 629.4 | 030003916 | 947.1 | 030003933 | | | | |